1	2	3
Kutchchh	387	..
Kheda	5384	..
Mehsana	5765	4
Panchmahal	6414	..
Rajkot	6307	..
Sabarkantha	7919	12
Surat	2952	..
Surendranagar	624	..
The Dangs	145	..
Vadodara	11231	1
Valsad	5747	2
TOTAL:—	78661	33

Agrecultural Machinery run by Bio-Mass Energy

1500. SHRI BHUPINDER SINGH MANN: Will the PRIME MINISTER be pleased *to* state:

(a) the names of countries of the world where agricultural machinery are running by bio-mass energy;

(b) whether this technology can be introduced in India; if so, the basic re quirements therefor; and

(c) what are the reasons for not intro ducing this technology in the country till now?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a) Countries which are using bio-mass energy systems for operating agricultural machinery include China, India, France, Sweden, Thailand, United Kingdom, United States of America, etc.

(b) Bio-mass energy technology has already been introduced and is being developed in India, based on the availability of various types of bio-mass and economic viability.

(c) Does not arise.

Wind Mill Technology

1501. SHRI BHUPINDER SINGH MANN: Will the PRIME MINISTER he pleased to state:

(a) what are the potential areas where wind mill technology to generate power can be launched and the basic amenities required therefor,

(b) the names of the countries where this technology is operating successfully and the power generated by the same in each country;

(c) what are the reasons for not bringing this technology to India;

(d) whether any survey has been made as to the potential areas for introducing this technology in India; and

(e) if so, the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISH'

NA KUMAR): (a) Locations having wind velocity of more than 18 kmph are generally suitable for generation of power from wind. Availability of land and suitable grid are the other main requirements for generation of wind power.

(b) A wind power capacity exceeding 3200 MW has been established world-wide. United States is leading with 1700 MW wind power capacity, followed by Denmark (520 MW), Germany (320 MW), U. K. (145 MW), Netherlands (132 MW) and India (117 MW).

(c) to (e) Under the National wind Resources Assessment Programme, 69 sites having wind speeds of more than 18 kmph have been idetined in eight States UTs viz., Tamil Nadu, Gujarat, Andhra Pradesh, Karnataka, Kerala, Madhya Pra desh, Maharashtra and Lakshadeep Islands, which could be considered for setting up wind power projects. A wind power capa city of 117 MW has already been estab lished in the country so far while another 50 MW is under implementation. Wind farm projects aggregating to about 900 MW capacity are at various stages of dis cussions in the potential States.

Pollution Clearance from Power Projects based on NCES

1502. SHRI SURESH PACHOURI: Will the PRIME MINISTER be pleased to state:

(a) whether the States have been insisting on pollution clearance from power projects based on non-conventional energy sources like solar and wind and in the same manner such formalities are imposed on thermal and large hydel power plants;

(b) whether the Ministry has been offering several incentives for power projects based on non-conventional sources;

(c) if so, whether the Ministry has revised the. target of power production from Won-Conventional sources;

(d) whether the Ministry *baa* found that the States have been applying the *seme* yardsticks and procedures to these pro_ jects that are applied to the projects_ based on conventional energy sources; and

(e) if so, what is the reaction of Gov ernment thereto?

THE MINISTER OF STATE IN THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI S. KRISHNA KUMAR): (a It is "not mandatory under the Environment (Protection) Act, 1986 and Rules thereunder, for power projects based on non-conventional energy sources like solar and wind to obtain environmental clearance.

(b) Primarily, incentives offered by the Central Govt., include subsidies for selected demonstration projects, accelerated de-preciation, tax holiday and concessional exemption on customs and excise duties.

(c) Yes, Sir. The Ministry of Non-Con-ventional Energy Sources has formulated a new Strategy and Action Plan and the targets to generate power through non-conventional energy sources by the end of the 8th Five Year Plan have been revised from 600 MW to 2000 MW.

(d) and (e) In order to accelerate power generation based on non-conventional energy sources, the States have been requested to evolve suitable instftutional malhnisms and conducive procedures for these projects. In addition, guidelines have also been suggested for announcement of private sector policies which would encourage non-conventional energy based power generation. A few States have already responded favourably to the suggestions of the Ministry.

Implementation of IREP in Orissa

1503. SHRI BHAGABAN MAJHI: Will the PRIME MINISTER be pleased to state-

(a) the names of the States where In-tegrated Rural Energy Programme (IREP) is being implemented;